1600

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/050,359

DATE: 10/17/2003
TIME: 13:49:52

Input Set : **A:\sequence listing.txt**
Output Set: **N:\CRF4\10172003\I050359.raw**

```
 3 <110> APPLICANT: FOWLKES, Dana M.
 4        KAY, Brian K.
 5        FRELINGER, Jeffrey A.
 6        HYDE-DERUYSCHER, Robin P
 8 <120> TITLE OF INVENTION: USE OF COMPLEMENTARY COMBINATORIAL LIBRARIES IN SCREENING
FOR
 9        DRUGS
11 <130> FILE REFERENCE: FOWLKES=4B
13 <140> CURRENT APPLICATION NUMBER: 09/050,359
14 <141> CURRENT FILING DATE: 1998-03-31
16 <150> PRIOR APPLICATION NUMBER: PCT/US97/19638
17 <151> PRIOR FILING DATE: 1997-10-31
19 <160> NUMBER OF SEQ ID NOS: 180
21 <170> SOFTWARE: PatentIn version 3.2
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 33
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial
28 <220> FEATURE:
29 <223> OTHER INFORMATION: library design
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (3)..(5)
35 <223> OTHER INFORMATION: n is a, c, g, or t
37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
39 <222> LOCATION: (7)..(8)
40 <223> OTHER INFORMATION: n is a, c, g, or t
42 <220> FEATURE:
43 <221> NAME/KEY: misc_feature
44 <222> LOCATION: (10)..(11)
45 <223> OTHER INFORMATION: n is a, c, g, or t
47 <220> FEATURE:
48 <221> NAME/KEY: misc_feature
49 <222> LOCATION: (13)..(14)
50 <223> OTHER INFORMATION: n is a, c, g, or t
52 <220> FEATURE:
53 <221> NAME/KEY: misc_feature
54 <222> LOCATION: (19)..(20)
55 <223> OTHER INFORMATION: n is a, c, g, or t
57 <220> FEATURE:
58 <221> NAME/KEY: misc_feature
59 <222> LOCATION: (22)..(23)
60 <223> OTHER INFORMATION: n is a, c, g, or t
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Input Set : A:\sequence listing.txt
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 62 <220> FEATURE:
 63 <221> NAME/KEY: misc_feature
 64 <222> LOCATION: (25)..(26)
 65 <223> OTHER INFORMATION: n is a, c, g, or t
 67 <220> FEATURE:
 68 <221> NAME/KEY: misc_feature
 69 <222> LOCATION: (28)..(29)
 70 <223> OTHER INFORMATION: n is a, c, g, or t
 72 <220> FEATURE:
 73 <221> NAME/KEY: misc_feature
 74 <222> LOCATION: (31)..(32)
 75 <223> OTHER INFORMATION: n is a, c, g, or t
 77 <400> SEQUENCE: 1
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W--> 78 gannnknnkn nknnktggnn knnknnknnk nnk   33

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 81 <210> SEQ ID NO: 2
 82 <211> LENGTH: 33
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Artificial
 86 <220> FEATURE:
 87 <223> OTHER INFORMATION: library design
 90 <220> FEATURE:
 91 <221> NAME/KEY: misc_feature
 92 <222> LOCATION: (1)..(2)
 93 <223> OTHER INFORMATION: n is a, c, g, or t
 95 <220> FEATURE:
 96 <221> NAME/KEY: misc_feature
 97 <222> LOCATION: (6)..(8)
 98 <223> OTHER INFORMATION: n is a, c, g, or t
100 <220> FEATURE:
101 <221> NAME/KEY: misc_feature
102 <222> LOCATION: (10)..(11)
103 <223> OTHER INFORMATION: n is a, c, g, or t
105 <220> FEATURE:
106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (13)..(14)
108 <223> OTHER INFORMATION: n is a, c, g, or t
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (19)..(20)
113 <223> OTHER INFORMATION: n is a, c, g, or t
115 <220> FEATURE:
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (22)..(23)
118 <223> OTHER INFORMATION: n is a, c, g, or t
120 <220> FEATURE:
121 <221> NAME/KEY: misc_feature
122 <222> LOCATION: (25)..(26)
123 <223> OTHER INFORMATION: n is a, c, g, or t
125 <220> FEATURE:
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    126 <221> NAME/KEY: misc_feature
    127 <222> LOCATION: (28)..(29)
    128 <223> OTHER INFORMATION: n is a, c, g, or t
    130 <220> FEATURE:
    131 <221> NAME/KEY: misc_feature
    132 <222> LOCATION: (31)..(32)
    133 <223> OTHER INFORMATION: n is a, c, g, or t
    135 <400> SEQUENCE: 2
W--> 136 nnkgannnkn nknnktggnn knnknnknnk nnk                      33
    139 <210> SEQ ID NO: 3
    140 <211> LENGTH: 33
    141 <212> TYPE: DNA
    142 <213> ORGANISM: Artificial
    144 <220> FEATURE:
    145 <223> OTHER INFORMATION: library design
    148 <220> FEATURE:
    149 <221> NAME/KEY: misc_feature
    150 <222> LOCATION: (1)..(2)
    151 <223> OTHER INFORMATION: n is a, c, g, or t
    153 <220> FEATURE:
    154 <221> NAME/KEY: misc_feature
    155 <222> LOCATION: (4)..(5)
    156 <223> OTHER INFORMATION: n is a, c, g, or t
    158 <220> FEATURE:
    159 <221> NAME/KEY: misc_feature
    160 <222> LOCATION: (9)..(11)
    161 <223> OTHER INFORMATION: n is a, c, g, or t
    163 <220> FEATURE:
    164 <221> NAME/KEY: misc_feature
    165 <222> LOCATION: (13)..(14)
    166 <223> OTHER INFORMATION: n is a, c, g, or t
    168 <220> FEATURE:
    169 <221> NAME/KEY: misc_feature
    170 <222> LOCATION: (19)..(20)
    171 <223> OTHER INFORMATION: n is a, c, g, or t
    173 <220> FEATURE:
    174 <221> NAME/KEY: misc_feature
    175 <222> LOCATION: (22)..(23)
    176 <223> OTHER INFORMATION: n is a, c, g, or t
    178 <220> FEATURE:
    179 <221> NAME/KEY: misc_feature
    180 <222> LOCATION: (25)..(26)
    181 <223> OTHER INFORMATION: n is a, c, g, or t
    183 <220> FEATURE:
    184 <221> NAME/KEY: misc_feature
    185 <222> LOCATION: (28)..(29)
    186 <223> OTHER INFORMATION: n is a, c, g, or t
    188 <220> FEATURE:
    189 <221> NAME/KEY: misc_feature
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RAW SEQUENCE LISTING   DATE: 10/17/2003
PATENT APPLICATION: US/09/050,359   TIME: 13:49:52

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\10172003\I050359.raw

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190 <222> LOCATION: (31)..(32)
191 <223> OTHER INFORMATION: n is a, c, g, or t
193 <400> SEQUENCE: 3
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W--> 194 nnknnkgann nknnktggnn knnknnknnk nnk   33
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197 <210> SEQ ID NO: 4
198 <211> LENGTH: 33
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial
202 <220> FEATURE:
203 <223> OTHER INFORMATION: library design
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (1)..(2)
209 <223> OTHER INFORMATION: n is a, c, g, or t
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (4)..(5)
214 <223> OTHER INFORMATION: n is a, c, g, or t
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (7)..(8)
219 <223> OTHER INFORMATION: n is a, c, g, or t
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (12)..(14)
224 <223> OTHER INFORMATION: n is a, c, g, or t
226 <220> FEATURE:
227 <221> NAME/KEY: misc_feature
228 <222> LOCATION: (19)..(20)
229 <223> OTHER INFORMATION: n is a, c, g, or t
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (22)..(23)
234 <223> OTHER INFORMATION: n is a, c, g, or t
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (25)..(26)
239 <223> OTHER INFORMATION: n is a, c, g, or t
241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <222> LOCATION: (28)..(29)
244 <223> OTHER INFORMATION: n is a, c, g, or t
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (31)..(32)
249 <223> OTHER INFORMATION: n is a, c, g, or t
251 <400> SEQUENCE: 4
```
W--> 252 nnknnknnkg annnktggnn knnknnknnk nnk   33
```
255 <210> SEQ ID NO: 5
```

```
256 <211> LENGTH: 33
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial
260 <220> FEATURE:
261 <223> OTHER INFORMATION: library design
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (1)..(2)
267 <223> OTHER INFORMATION: n is a, c, g, or t
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (4)..(5)
272 <223> OTHER INFORMATION: n is a, c, g, or t
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (7)..(8)
277 <223> OTHER INFORMATION: n is a, c, g, or t
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
281 <222> LOCATION: (10)..(11)
282 <223> OTHER INFORMATION: n is a, c, g, or t
284 <220> FEATURE:
285 <221> NAME/KEY: misc_feature
286 <222> LOCATION: (15)..(15)
287 <223> OTHER INFORMATION: n is a, c, g, or t
289 <220> FEATURE:
290 <221> NAME/KEY: misc_feature
291 <222> LOCATION: (19)..(20)
292 <223> OTHER INFORMATION: n is a, c, g, or t
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (22)..(23)
297 <223> OTHER INFORMATION: n is a, c, g, or t
299 <220> FEATURE:
300 <221> NAME/KEY: misc_feature
301 <222> LOCATION: (25)..(26)
302 <223> OTHER INFORMATION: n is a, c, g, or t
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (28)..(29)
307 <223> OTHER INFORMATION: n is a, c, g, or t
309 <220> FEATURE:
310 <221> NAME/KEY: misc_feature
311 <222> LOCATION: (31)..(32)
312 <223> OTHER INFORMATION: n is a, c, g, or t
314 <400> SEQUENCE: 5
```

W--> **315 nnknnknnkn nkgantggnn knnknnknnk nnk**   33

```
318 <210> SEQ ID NO: 6
319 <211> LENGTH: 33
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/17/2003
PATENT APPLICATION: **US/09/050,359**   TIME: 13:49:53

Input Set : **A:\sequence listing.txt**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3,4,5,7,8,10,11,13,14,19,20,22,23,25,26,28,29,31,32
Seq#:2; N Pos. 1,2,6,7,8,10,11,13,14,19,20,22,23,25,26,28,29,31,32
Seq#:3; N Pos. 1,2,4,5,9,10,11,13,14,19,20,22,23,25,26,28,29,31,32
Seq#:4; N Pos. 1,2,4,5,7,8,12,13,14,19,20,22,23,25,26,28,29,31,32
Seq#:5; N Pos. 1,2,4,5,7,8,10,11,15,19,20,22,23,25,26,28,29,31,32
Seq#:6; N Pos. 1,2,4,5,7,8,10,11,13,14,21,22,23,25,26,28,29,31,32
Seq#:7; N Pos. 1,2,4,5,7,8,10,11,13,14,19,20,24,25,26,28,29,31,32
Seq#:8; N Pos. 1,2,4,5,7,8,10,11,13,14,19,20,22,23,27,28,29,31,32
Seq#:9; N Pos. 1,2,4,5,7,8,10,11,13,14,19,20,22,23,25,26,30,31,32
Seq#:10; N Pos. 1,2,4,5,7,8,10,11,13,14,19,20,22,23,25,26,28,29,33
Seq#:11; Xaa Pos. 1,2,3,4,6,7,8,9,10
Seq#:12; Xaa Pos. 1,2,3,4,7,8,9,10
Seq#:13; Xaa Pos. 1,2,3,6,7,9,10
Seq#:14; Xaa Pos. 1,2,3,4,5,6,8,11,13,14
Seq#:17; N Pos. 16,17,19,20,22,23,25,26,28,29,34,35,37,38,40,41,43,44,46,47
Seq#:47; Xaa Pos. 1,3,10,11
Seq#:62; Xaa Pos. 5,6,9,10,11
Seq#:93; Xaa Pos. 2
Seq#:121; Xaa Pos. 2,3
Seq#:168; Xaa Pos. 1,2,3,5,10
Seq#:169; Xaa Pos. 2,4,6,7
Seq#:170; Xaa Pos. 4
Seq#:172; Xaa Pos. 1,5
Seq#:173; Xaa Pos. 6
Seq#:175; Xaa Pos. 2,5,7
Seq#:177; Xaa Pos. 2,3
Seq#:179; Xaa Pos. 2

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75
Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
Seq#:100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117
Seq#:118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135
Seq#:136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153
Seq#:154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171
Seq#:172,173,174,175,176,177,178,179,180

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/050,359**

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TIME: 13:49:53

Input Set : **A:\sequence listing.txt**
Output Set: **N:\CRF4\10172003\I050359.raw**

```
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:1245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:1488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
L:2392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:0
L:3076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:0
L:3111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:169 after pos.:0
L:3131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:0
L:3170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:172 after pos.:0
L:3195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173 after pos.:0
L:3239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175 after pos.:0
L:3273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0
L:3307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179 after pos.:0
```